

## ABSTRACT

A liquid crystal display is provided which comprises a front panel comprising a front alignment layer having an alignment direction, a rear panel comprising a rear alignment layer having an alignment direction, and a liquid crystal layer between the front and rear alignment  
5 layers. The liquid crystal layer has a rotational twist angle of about  $90^\circ$  and a pre-tilt angle of not more than  $2^\circ$ . The alignment, material and thickness of the liquid crystal layer are such that at the mid-point of the rotational twist, the direction of liquid crystal directors coincide with an off-normal viewing direction of the liquid crystal display.

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